

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0002526

Owner: Bayer CropScience LP
Address: 2 T.W. Alexander Drive, Research Triangle Park, NC 27709

Continuing Authority: Same as above
Address: Same as above

Facility Name: Bayer CropScience
Address: 8400 Hawthorn Road, Kansas City, MO 64120

Legal Description: SW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 29, T50N, R32W, Jackson County

Receiving Stream & Basin: Missouri River (Missouri River and West Central Tributaries Basin) (10300101-30-00)(P)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 - Chemical Plant

A "Unox" pure oxygen activated sludge treatment facility with equalization, pH adjustment and other related appurtenances designed for a flow of 2.4 MGD.

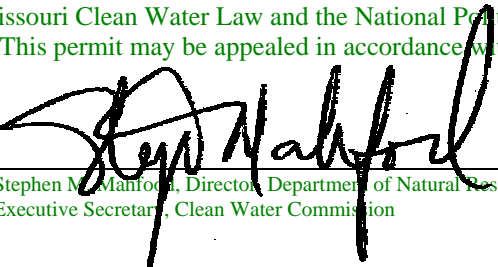
Outfall #002

Thermal Oxidizer II. This outfall discharges into Outfall #001.
Design flow is 0.29 MGD.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

June 19, 1987 January 24, 2003
Effective Date Revised

June 18, 1992
Expiration Date
MO 780-0041 (10-93)


Stephen M. Manford, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Jim Hull, Director of Staff, Clean Water Commission

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PERMIT NUMBER MO-0002526	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow-m ³	MGD	*		*	once/day	24 hr. total
Biochemical Oxygen Demand ₅	lbs/day	7,953		1,721	once/week	24 hr. composite
Total Oxygen Demand	lbs/day	21,818		14,988	once/day	24 hr. composite
Non-Filterable Residue (Total Suspended Solids)	lbs/day	6,569		1,941	once/week	24 hr. composite
Total Pesticides	lbs/day	9.75		2.9	twice/month	24 hr. composite
Ammonia - Nitrogen (NH ³ -T)	lbs/day	2,015		1,705	once/week	grab
pH - Units	SU	**		**	continuous	recorder
Copper, Total	lbs/day	*		*	once/month	grab
Cyanide, Total	lbs/day	*		*	once/month	grab
Phenol	lbs/day	*		*	once/quarter	grab
Methyl Bromide	lbs/day	*		*	once/quarter	grab
2,4-Dichlorophenol	lbs/day	*		*	once/quarter	grab
Toluene	lbs/day	*		*	once/quarter	grab
1,2-Dichloroethane	lbs/day	*		*	once/quarter	grab
Priority Pollutant Scan (Note 1)	µg/L	*		*	once/6 months	grab
<u>Outfall #002</u>						
Flow-m ³	MGD	*		*	once/week	24 hr. total
Biochemical Oxygen Demand ₅	lbs/day	692		256	once/month	grab
Total Oxygen Demand	lbs/day	17,060		1,079	once/month	grab
Non-Filterable Residue (Total Suspended Solids)	lbs/day	6,950		1,065	once/month	grab
pH - Units	SU	**		**	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE <u>March 28, 2003</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** The permittee shall maintain the pH of such wastewater within the range of 6.0-9.0 standard units, except excursions from the range that are permitted subject to the following limitations:
 - (1) The total time during which the pH values are outside the required range of pH values shall not exceed 7 hours and 26 minutes in any calendar month; and
 - (2) No individual excursion from the range of pH values shall exceed 60 minutes.

C. SPECIAL CONDITIONS

1. This permit may be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2) (C), and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (b) Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.
2. Permittee shall not cause or contribute to violations of instream water quality required by 10 CSR 20-7.031.
3. Permittee is to abandon the treatment facilities described here in and shall connect the tributary waste load to trunk sewers within 90 days of notice of availability if trunk sewers operated by one of the authorities outlined in Section (3)(B) 1 or 2 of Clean Water Commission Regulation 10 CSR 20-6.010 are made available to the site during the time a valid discharge permit exists.

Sludge Monitoring for Priority Pollutants (mg/kg dry weight unless otherwise noted)
(Note 1)

Acenaphthene	4-chlorophenyl phenyl ether
Acrolein	4-bromophenyl phenyl ether
Acrylonitrile	Bis (2-chloroisopropyl) ether
Benzene	Bis (2-chloroethoxy) methane
Benzidine	Methylene Chloride (dichloromethane)
Carbon Tetrachloride (tetrachloromethane)	Methyl Chloride (chloromethane)
Chlorobenzene	Methyl bromide (bromomethane)
1,2,4-trichlorobenzene	Bromoform (tribromomethane)
Hexachlorobenzene	Dichlorobromomethane
1,2-dichloroethane	Chlorodibromomethane
1,1,1-trichloroethane	Hexachlorobutadiene
Hexachloroethane	Hexachlorocyclopentadiene
1,1-dichloroethane	Isophorone
1,1,2-trichloroethane	Naphthalene
1,1,2,2-tetrachloroethane	Nitrobenzene
Chloroethane	2-nitrophenol
Bis (2-chloroethyl) ether	4-nitrophenol
2-chloroethyl vinyl ether	2,4-dinitrophenol
N-nitrosodi-n-propylamine	4,6-dintro-o-cresol
Pentachlorophenol	N-nitrosodimethylamine
Phenol	N-nitrosodiphenylamine
Bis (2-ethylhexyl) phthalate	Phenanthrene
Butyl benzyl phthalate (dibenzo(a,h)anthracene)	1,2,5,6-dibenzanthracene
Di-n-butyl phthalate	Indeno (1,2,3-cd) pyrene (2,3-o-phenylene pyrene)
Di-n-octyl phthalate	Pyrene
Diethyl phthalate	Tetrachloroethylene
Dimethyl phthalate	Toluene
1,2-benzanthracene (benzo(a)anthracene)	Trichloroethylene
Benzo(a)pyrene (3,4-benzopyrene)	Vinyl Chloride (chloroethylene)
3,4-benzofluoranthene (benzo(b)fluoranthene)	Aldrin
11,12-benzofluoranthene (benzo(k)fluoranthene)	Dieldrin
Chrysene	Chlordane (technical mixture and
metabolites)	
Anthracene	4,4-DDT
1,12-benzoperylene (benzo(ghi)perylene)	4,4-DDE (p,p-DDX)
Fluorene	4,4-DDD (p,p-TDE)
2-chloronaphthalene	Alpha-endosulfan
2,4,6-trichlorophenol	Beta-endosulfan
Parachlorometa cresol	Endosulfan sulfate
Chloroform (trichloromethane)	Endrin
2-chlorophenol	Endrin aldehyde
1,2-dichlorobenzene	Heptachlor
1,3-dichlorobenzene	Heptachlor epoxide (BHC)
hexachlorocyclohexane)	
1,4-dichlorobenzene	Alpha-BHC
3,3-dichlorobenzidine	Beta-BHC
1,1-dichloroethylene	Gamma-BHC
1,2-trans-dichloroethylene	Delta-BHC (PCB polychlorinated biphenyls)
2,4-dichlorophenol	PCB-1242 (Arochlor 1242)
1,2-dichloropropane (1,3-dichloropropane)	PCB-1254 (Arochlor 1254)
2,4-dimethylphenol	PCB-1221 (Arochlor 1221)
2,4-dinitrotoluene	PCB-1232 (Arochlor 1232)
2,6-dinitrotoluene	PCB-1248 (Arochlor 1248)
1,2-diphenylhydrazine	PCB-1260 (Arochlor 1260)
Ethylbenzene	PCB-1016 (Arochlor 1016)

Fluoranthene

Toxaphene